

AMENDMENTS

In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) An electronic component mounting apparatus comprising:

a component feeding unit feeding an electronic component;

a suction nozzle picking up the electronic component from the component feeding unit and mounting the electronic component on a printed board; and

a position sensor measuring a vertical position of a lower end of the suction nozzle after the suction nozzle releases the electronic component to the printed board and before a vertical movement of the suction nozzle for picks picking up the next electronic component from the component feeding unit is performed.

2. (Original) The electronic component mounting apparatus of claim 1, further comprising a drive source moving the suction nozzle vertically and a control device determining a range of a vertical movement of the suction nozzle based on the vertical position of the lower end of the suction nozzle measured by the position sensor.

3. (Canceled)

4. (Previously Presented) The electronic component mounting apparatus of claim 1, further comprising a decision device judging that the suction nozzle is about to fall when the vertical position of the lower end of the suction nozzle measured by the position sensor is lower than a predetermined position.

5. (Canceled)

6. (Original) The electronic component mounting apparatus of claim 1, wherein the position sensor comprises a line sensor.

7. (Withdrawn) An electronic component mounting apparatus comprising: a plurality of component feeding units feeding electronic components; a plurality of suction nozzles provided on a mounting head for picking up the electronic components from the component feeding units

and mounting the electronic components on a printed board; a line sensor unit comprising a first light source and a light receiving device, the line sensor being configured to measure a vertical position of a lower end of each of the suction nozzles after the suction nozzles release the electronic components to the printed board; a second light source provided in the line sensor unit in addition to the first light source; and a decision device judging that a suction nozzle is about to fall when an amount of light received by the light receiving device from the first and second light sources is below a predetermined amount.

8. (Withdrawn) The electronic component mounting apparatus of claim 7, wherein the decision device does not judge the suction nozzles that are mounted on the mounting head and have mounted at least one electric component on the printed board.

9. (Withdrawn) The electronic component mounting apparatus of claim 7, further comprising a nozzle select and switch device replacing a suction nozzle used in a first mounting operation with a suction nozzle selected for a second mounting operation, wherein the decision device does not judge the suction nozzles that are selected by the nozzle selection and switch device and mounted on the mounting head.

10. (New) The electronic component mounting apparatus of claim 1, further comprising a decision device judging that the suction nozzle is worn when the vertical position of the lower end of the suction nozzle measured by the position sensor is higher than a predetermined position.